Amendment Dated: May 26, 2009

Reply to Office Action dated March 4, 2009 and May 14, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously Presented) A method for selecting a characterizing algorithm for generating a characterizing information descriptor for a selected block of printed material, where said printed material is to be scanned from an object and compared with said characterizing information descriptor at a location distant from where said block is printed, said method comprising the steps of:
 - a) printing said block on an object;
- b) applying each algorithm from a predetermined set of characterizing algorithms to a pristine image of said block of printed material to generate a plurality of corresponding first characterizing information descriptors for said block;
- c) determining estimates of robustness, with respect to said block of printed material, for each of said algorithms in said set to determine which of said characterizing algorithms is most robust; in order to produce descriptions that match sufficiently when said block of printed material is valid and do not match when said block of printed material is invalid; and
- d) selecting a descriptor generated by said algorithm and being so determined to be most robust to be used at said distant location.
- 2. (Previously Presented) The method as described in claim 1 wherein said step c) comprises the sub-steps of:
- c1) filtering said pristine digital image of said block of printed material with a print/scan filter to create a filtered image, said print/scan filter simulating the expected transformation of said pristine image by printing and scanning processes;

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c2) applying each algorithm from said predetermined set of characterizing algorithms to said filtered image to generate a plurality of corresponding second characterizing information descriptors for said filtered digital image; and

c3) for each algorithm from said predetermined set of characterizing algorithms, comparing corresponding said first and said second descriptors to determine which of said characterizing algorithms is most robust.

- 3. (Previously Presented) The method as described in claim 2 where said object is a mail piece show detection of period and said block of printed material represents an address.
- 4. (Previously Presented) The method as described in claim 3 where said selected descriptor is comprised in an indicium printed on said mail piece; whereby said selected descriptor can be recovered from said indicium for use at said remote location.
- 5. (Previously Presented) The method as described in claim 4 where said indicium further comprises information identifying said algorithm so determined.
- 6. (Previously Presented) The method as described in claim 2 where said selected descriptor is one of said second descriptors.
- 7. (Previously Presented) The method as described in claim 1 where said object is a mail piece and said block of printed material represents an address.
- 8. (Previously Presented) The method as described in claim 7 where said selected descriptor is comprised in an indicium printed on said mail piece; whereby said selected descriptor can be recovered from said indicium for use at said remote location.

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9. (Previously Presented) The method as described in claim 8 where said indicium further comprises information identifying said algorithm so determined.

- 10. (Previously Presented) The method as described in claim 1 wherein said step c) comprises the sub-steps of:
- c1) filtering said pristine digital image of said block of printed material with a print/scan filter to create a filtered image, said print/scan filter simulating the expected transformation of said pristine image by printing and scanning processes;
- c2) further filtering said filtered image with one or more defacing filters, said defacing filters simulating blots, smudges, failure of print elements or scanner sensors, or other, similar occasional events which can not easily be incorporated into said print/scan filter to create one or more defaced images;
- c2) applying each algorithm from said predetermined set of characterizing algorithms to said filtered image and to said one or more defaced images to generate a plurality of corresponding second characterizing information descriptors for said filtered digital image and one or more pluralities of defaced image descriptors corresponding to each of said one or more defaced images; and
- c3) for each algorithm from said predetermined set of characterizing algorithms, comparing corresponding first characterizing information descriptors with corresponding second characterizing information descriptors and with each of said one or more corresponding defaced image descriptors to determine which of said characterizing algorithms is most robust.
- 11. (Previously Presented) The method as described in claim 10 where said object is a mail piece and said block of printed material represents an address.
- 12. (Previously Presented) The method as described in claim 11 where said selected descriptor is comprised in an indicium printed on said mail piece; whereby

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said selected descriptor can be recovered from said indicium for use at said remote location.

- 13. (Previously Presented) The method as described in claim 12 where said indicium further comprises information identifying said algorithm so determined.
- 14. (Previously Presented) The method as described in claim 10 where said selected descriptor is one of said second descriptors.
- 15. (Currently Amended) A secure indicia printing system for generating and printing an indicium on an object, said object having other material printed thereon, comprising:
 - a) a printer for printing said indicium;
- b) a processor for receiving a pristine digital image of said other printed material, and for processing said image to abstract characterizing information descriptive of aspects of said image from said image, said processor being programmed to:
- b1) apply each algorithm from a predetermined set of characterizing algorithms to said pristine image of said block of printed material to generate a plurality of corresponding first characterizing information descriptors for said block;
- b2) determine estimates of robustness, with respect to said block of printed material, for each of said algorithms in said set to determine which of said characterizing algorithms is most robust;
- b3) select a descriptor generated by said algorithm and being so determined to be most robust; and
 - b4) output said selected descriptor;
- c) a meter, said meter communicating with said processor to receive said descriptor, and having a communications link for receiving other information from another information source, and communicating with said printer; for:

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c1) cryptographically authenticating said descriptor and other information;

- c2) generating said indicium to be representative of said cryptographically authenticated descriptor and information; and
- c3) controlling said printer to print said indicium on said object; whereby d) said object's relationship to said indicium can be verified by regenerating said first characterizing information descriptor from said other printed material and comparing said regenerated descriptor with said descriptor recovered from said indicium, and copies of said indicium cannot easily be used without detection on other objects which do not include said other printed material.
- 16. (Previously Presented) The system as described in claim 15 where said processor is programmed to carry out said programming step b2) by:
- b2.1) filtering said pristine digital image of said block of printed material with a print/scan filter to create a filtered image, said print/scan filter simulating the expected transformation of said pristine image by printing and scanning processes;
- c2) applying each algorithm from said predetermined set of characterizing algorithms to said filtered image to generate a plurality of corresponding second characterizing information descriptors for said filtered digital image; and
- c3) for each algorithm from said predetermined set of characterizing algorithms, comparing corresponding said first and said second descriptors to determine which of said characterizing algorithms is most robust.
- 17. (Previously Presented) The system as described in claim 15 where said processor is programmed to carry out said programming step b2) by:
- b2.1) filtering said pristine digital image of said block of printed material with a print/scan filter to create a filtered image, said print/scan filter simulating the expected transformation of said pristine image by printing and scanning processes;

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b2.2) further filtering said filtered image with one or more defacing filters, said defacing filters simulating blots, smudges, failure of print elements or scanner sensors, or other, similar occasional events which can not easily be incorporated into said print/scan filter to create one or more defaced images;

b2.3) applying each algorithm from said predetermined set of characterizing algorithms to said filtered image and to said one or more defaced images to generate a plurality of corresponding second characterizing information descriptors for said filtered digital image and one or more pluralities of defaced image descriptors corresponding to each of said one or more defaced images; and

b2.4) for each algorithm from said predetermined set of characterizing algorithms, comparing corresponding first characterizing information descriptors with corresponding second characterizing information descriptors and with each of said one or more defaced image descriptors to determine which of said characterizing algorithms is most robust.

- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)